

South Carolina Governor's School for Science and Mathematics

401 Railroad Avenue, Hartsville, SC 29550

Website: www.scgssm.org

Grades 11-12

Enrollment 183 Students

School President Dr. Murray W. Brockman

843-383-3900

Board Chair Dr. Leroy Davis

803-780-1349

THE STATE OF SOUTH CAROLINA ANNUAL SCHOOL 2014 REPORT CARD

RATINGS OVER 5-YEAR PERIOD

Year	Absolute Rating	Growth Rating
2014	Excellent	Excellent
2013	Excellent	Excellent
2012	Excellent	Excellent
2011	Excellent	Excellent
2010	Excellent	Excellent

ADEQUATE YEARLY PROGRESS

YES

Definition: As required by the United States Department of Education, Adequate Yearly Progress specifies that the statewide target is met for "All Students" and for the following subgroups: Racial/Ethnic, Subsidized Meals, Disability, and Limited English Proficiency in the areas of English/Language Arts and Mathematics, as well as meeting the statewide target for "All Students" for attendance or graduation rate.

DEFINITIONS OF SCHOOL RATING TERMS

- Excellent – School performance substantially exceeds the standards for progress toward the 2020 SC Performance Vision
- Good – School performance exceeds the standards for progress toward the 2020 SC Performance Vision
- Average – School performance meets the standards for progress toward the 2020 SC Performance Vision
- Below Average – School is in jeopardy of not meeting the standards for progress toward the 2020 SC Performance Vision
- At-Risk – School performance fails to meet the standards for progress toward the 2020 SC Performance Vision

SOUTH CAROLINA PERFORMANCE VISION

By 2020 all students will graduate with the knowledge and skills necessary to compete successfully in the global economy, participate in a democratic society and contribute positively as members of families and communities.

<http://ed.sc.gov>

<http://www.eoc.sc.gov>

PERFORMANCE CRITERIA	DATA
Advanced Placement (AP) Pass Rate	89%
Graduates' College Freshman GPA (In-state Colleges)	3.73
SAT Average (High Verbal & Math) / (High Verbal, Math, & Writing)	1318 / 1950

AP TEST SCORE DISTRIBUTION

Score	5		4		3		2		1		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	52	23%	71	38%	51	25%	21	9%	7	2%	202	100%

COLLEGE FRESHMAN GPA

GPA	3.5-4.0		3.3-3.5		3.1-3.3		2.9-3.1		<2.9		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	39	85%	2	4%	1	2%	3	7%	1	2%	46	100%

SAT SCORES

	Middle 50%		Range	
SAT Critical Reading	646	730	490	800
SAT Math	672	750	430	800

A Special Note on Performance

Every student at Governor's School completes a research course requirement that is a distinctive learning and maturing experience. Senior research begins with at least six full weeks of research in the summer following the junior year. Most of the students conduct their research at university or industrial research facilities under the mentorship of professional scientists or engineers. Currently, a special exchange program supports several research positions in Germany and South Korea. Students work with their research mentors and Governor's School advisors during the senior year to compile and analyze their research findings, prepare formal research papers, and present their work at a school-sponsored colloquium and at the SC Junior Academy of Science annual meeting.

END OF COURSE TESTS

N/A

Abbreviations for Missing Data

N/A--Not Applicable N/AV--Not Available N/C--Not Collected N/R--Not Reported I/S--Insufficient Sample

SCHOOL PROFILE

	Our School	Change from Last Year
Students (n=183)		
Retention rate	0	Same
Attendance rate	96.7%	Up from 94.5%
With disabilities other than speech	1	Same
Older than usual for grade	0	Same
Out-of-of school suspensions or expulsions for violent &/or criminal offenses	N/A	Same
Annual dropout rate	N/A	Same
Students in residence	220	Up from 183
National Achievement Semifinalists/Finalists	0% / 0%	Down from 63%/80%
Seniors Completing Science Research Project	100%	Same
Community Service-hr./student	83	Same
Graduating attending college	100%	Same
Seniors eligible for LIFE Scholarship	99%	Same
Total scholarship offered	\$16,461,691	Up From \$12,026,907
Number of seniors	95	Up from 65
National Merit Semifinalists/Finalists	7% / 6%	Down from 43% / 20%
Teachers (n=14)		
Teachers with advanced degrees	100%	Same
Percent of classes not taught by highly qualified teachers	N/R	Same
Teachers with emergency or provisional certificates	N/A	Same
Teachers returning from previous year	100%	Up from 99%
Teacher attendance rate	99.5%	Down from 99.8%
Average salary	\$68,172	Up from \$65,581
Professional development days per teacher	6	Same
Teachers with Doctorates	83%	Up from 82%
Years teaching experience-middle 50%	9-20	Down from 21 to 39
School		
President's years at the school	13	Up from 12
Student-teacher ratio in core subjects	8 to 1	Down from 10 to 1
Prime instructional time	96.2%	Down from 96.3%
Percent of expenditures for instruction	N/R	Same
Dollars spent per pupil	\$15,896 ^a	Down from \$16,579
Percent of expenditures for teacher salaries	70.9%	Up from 70.6%
Opportunities in the arts	100%	New Program
Parents attending conferences	68%	Down from 91%
SACS accreditation	N/A	Same
University/Industrial Partners in Research Mentor Program	25	Up from 14
Mentors in Research Program	96	Up from 86
Student clubs and organizations	34	Down from 44
Students active in clubs/societies	96.4%	Down from 98.6%
Varsity sports teams	14	Up from 9
Students participating in varsity sports	60%	Down from 83%
Students returning to home high school	3.8%	Down from 9.8%
Outreach to other schools		
Students in Summer Science Programs(GoSciTech, iteams.gpod,Accelerate Boot Camp)	1295	Up from 445
Students around state in other GSSM Outreach Programs	1860	New Programs
6 week summer research positions for other HS students	6	Up from 3
Other S.C. Educators in Outreach Training/Devel. Programs	114	Up from 26

^a Growth Phase-Costs for academic program(base support) adjusted for normal high school comparison. Does not include residential life.

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REPORT OF PRESIDENT

From its founding in 1988 by a visionary Act of the General Assembly, GSSM has served as a portal through which talented students from throughout South Carolina have embarked on a lifetime of exploration, discovery and growth. The mission of this unique school emphasizes developing the scientifically astute and ethically aware leaders needed for our expanding knowledge-based economy. Recognized as a leader in the state, GSSM is now concentrating on national prominence with a focus on the global nature of modern science and industry.

At our founding, GSSM shared facilities with Coker College, and private donors provided all funds for construction. As our successes mounted and our reputation grew, the Board of Trustees approached the General Assembly with plans for a stand-alone campus to house more students. The General Assembly concurred, and we are expanding rapidly. We have hired faculty in all disciplines and we are steadily increasing the number of students. Our new Blue Cross Blue Shield Economics and Finance Institute has already opened, broadening and sharpening our student's ability to think in economic and business terms about opportunities in high technology, and we are in our second year of a ground-breaking initiative in Engineering in our Residential program and state-wide.

GSSM students continue to perform at the highest levels, reflecting the individual talents of these remarkable young people as well as the unique opportunities offered by GSSM. The significant achievements of the students in residence in Hartsville (highest SAT average in the state; \$16.5 million in scholarship offers to 94 seniors) are crowned by their completion of a mentored individual research project at a research university or industrial laboratory in the US or internationally. This year GSSM students carried out research at the German Cancer Research Center, the Fraunhofer Institute for Experimental Software Engineering and the German Research Center for Artificial Intelligence, all in Germany. Typically, several students publish their work in peer-reviewed scholarly journals each year.

Appropriate emphasis on extracurricular activities for all students continues to build strong school spirit, with 60% of students participating in varsity athletics. Our volleyball, tennis and soccer teams are consistently ranked highly; both boys and girls soccer teams advanced to the second round of the state play-offs. Boys and girls cross country teams participated in the state championships, as did individual members of the swimming team. Overall, our athletic program ranks in the top 40 in the state for all schools. Additionally, students lead and direct more than 31 clubs and societies, involving 96% of students. Students serve their community and school by working 83 hours each year, supplementing instruction on ethics and character development. Notably, our students mentored members of the Hartsville Boys and Girls Club in math, achieving 100% advancement by one grade level in three months. Perhaps best of all, students report great satisfaction from forming "friendships for life."

As expected, this combination of academic excellence, community commitment, character and hard work results in GSSM graduates being admitted to some of the nation's most prestigious universities every year. This year students were admitted to Yale, Columbia, Duke, the University of Pennsylvania, Wellesley, Vanderbilt, Carnegie-Mellon, the University of California at Los Angeles, and many other excellent schools.

GSSM's Outreach shares exemplary programs statewide to improve science achievement. We have expanded a concept initially sponsored by Google to a computer-based entrepreneurship camp for middle school students in Dorchester, Greenville, Beaufort, Spartanburg, Richland, Lexington, Greenwood, Horry and York counties. Our Go SciTech Program encouraged 8th, 9th and 10th graders to explore "real" science, math and computer. Sonoco has funded a remarkable program with Darlington County Schools, GSSM, Coker College and Yale University to enhance educational excellence at all levels in Hartsville, with special attention by GSSM to calculus, chemistry, molecular biology and environmental science.

We are eagerly planning to enhance this remarkable record. We have admitted a junior class at maximum capacity (148 students) for next fall. Our new faculty and staff members are as amazing as our veterans, and as we continue to grow, we will continue to create new opportunities for our students, like international research, that have no comparison anywhere in the nation. GSSM will continue to be a flagship for education in South Carolina and, increasingly, the nation.

Murray W. Brockman, President

EVALUATIONS BY STUDENTS, TEACHERS, AND PARENTS

	Students	Teachers	Parents
Number of surveys returned	79	27	79
Satisfied with learning environment	92.4%	96.3%	97.5%
Satisfied with social and physical environment	93.7%	96.3%	91.0%
Satisfied with school-home relations	84.8%	92.6%	92.4%

*11th grade students and parents were surveyed.